ELSEVIER

Journal of Alloys and Compounds 241 (1996) 233

Journal of ALLOYS AND COMPOUNDS

Author Index of Volume 241

Abakumov, A.M., 63
Albering, J.H., 44
Allibert, C., 216
Allibert, C.H., 210
Andersson, Y., 22
Antipov, E.V., 63
Arof, A.K., 148
Aselage, T.L., 180

Berand, N., 29
Blasse, G., 75
Bloch, J., 224
Booij, A.S., 95
Brock, S.L., 82
Buschow, K.H.J., 124

Capponi, J.J., 63
Cataldo, L., 210, 216
Chartouni, D., 160
Ciurchea, D., 116
Cohen-Adad, M.-T., 210, 216
Cordfunke, E.H.P., 95
Corsépius, S., 121
Czakó-Nagy, I., 10

De Boer, F.R., 124
De Boer, J.L., 34
De Groot, C.H., 124
Deltour, R., 116
DiSalvo, F.J., 69, 89
Dong, C., 191
Drinkwater, D., 89
Ducret, F., 216

Endo, T., 16

Flükiger, R., 127
Franzen, H.F., 98

Gachon, J.-C., 199
Ganich, E.A., 112
Gelabert, M.C., 89
Geru, I.I., 116
Gorgut, G.P., 187
Grivel, J.-C., 127
Gross, K., 160
Gržeta, B., 10
Gulyak, A.V.., 187
Guo, Y., 191

Himmrich, J., 1

Ibrahim, Z.A., 148
Ilonca, G., 116
Ioannides, M.G., 175

Jeitschko, W., 44
Junqin, L., 196

Kantser, V.G., 116
Kauzlarich, S.M., 82
Klesnar, H., 180
Kok-Scheele, A., 95
Kolenda, M., L1
Konings, R.J.M., 95
Kopnin, E.M., 63
Kovács, A., 95
Kubota, S.-i., 16
Kwei, G.H., 180

Lamfers, H.-J., 34
Larsson, T., 22
Lawson, A.C., 180
Lebedev, O.I., 63
Leciejewicz, J., L1
Lee, K.-M., 153
Lefevre, A., 210, 216
Lenkewitz, M., 121

Liang, J., 191
Lobanov, M.V., 63
Lomzin, A.F., 187
Lubarskii, S.V., 63
Lutz, H.D., 1

Mahdouk, K., 199
Malaman, B., 135
Marking, G.A., 98
Meetsma, A., 34
Meli, F., 160
Miller, G.J., 51
Mintz, M.H., 224
Morosin, B., 180
Moze, O., 124
Musić, S., 10

Nicolaides, G.K., 175
Noläng, B., 22
Nordell, K.J., 51

Olekseyuk, I.D., 187

Poort, S.H.M., 75
Pop, A.V., 116
Pop, V., 116
Popović, S., 10

Range, K.-J., 29
Rao, G., 191
Raub, C.Z.J., 232
Reijnhoudt, H.M., 75
Ressouche, E., 135
Rumyantseva, T.N., 112

Sai Raman, S.S., 167
Schlapbach, L., 160
Schmidt, M., 1
Semenenko, K.N., 112
Shimada, M., 16
Shingu, P.H., 153
Srivastava, O.N., 167
Štefanić, G., 10
Stewart, G.R., 121
Stüsser, N., L1
Sundman, B., 199
Sysa, L.V., 187
Szytuła, A., L1

Takizawa, H., 16
Tang, W., 191
Todică, M., 116
Tomkowicz, Z., L1
Tsamakis, D.M., 175

Valignat, N., 210, 216
Van der Kuip, H.O.T., 75
Venturini, G., 135

Wang, S., 40
Wiegers, G.A., 34
Wu, F., 191

Xiangli, O., 196
Xie, Y., 40

Yahaya, A.H., 148
Yakovleva, N.A., 112
Yamane, H., 69
Ye, M., 116
Yinghong, Z., 196
Young, V.G., 98

Zhao, X., 40
Zhao, Y., 191
Züttel, A., 160

Elsevier Science S.A.

ELSEVIER

Journal of Alloys and Compounds 241 (1996) 235–238

Journal of ALLOYS AND COMPOUNDS

Subject Index of Volume 241

A.c. and d.c. susceptibility
effect of Fe substitution on the magnetic and electrical properties of the $(Bi_{1.6}Pb_{0.4})(Sr_{1.8}Ba_{0.2})Ca_2(Cu_{1-x}Fe_x)_3O_y$ superconductor 116
Activation energy
factors influencing the apparent activation energy for the formation of the $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+\delta}$ compound 127
the hydriding kinetics of β-quenched uranium–0.1 wt.% chromium 224
Ag–Ga–Se system
crystal chemical properties and preparation of single crystals of $AgGaSe_2$–$GeSe_2$ γ-solid solutions 187
Alkaline earth compounds
synthesis and properties of $BaCu_xNi_{1-x}S_{2-\delta}$ ($0.0 < x < 0.4$; $0.0 < \delta < 0.09$) 89
Al–Ti alloys
solid state reaction between powders and foils by low-energy ball milling 153
Ammonium
lattice vibration spectra. Part LXXXVI. Infrared and Raman spectra of baryte-type $TlClO_4$, $TlBF_4$, and NH_4BF_4 single crystals and of ^{11}B-enriched NH_4BF_4 1
Antiferromagnetism
structure–property relationships in a series of mixed layer pnictide oxide compounds: $A_2Mn_3Pn_2O_2$ (A = Sr, Ba; Pn = P, As, Sb) 82

^{11}B enrichment
lattice vibration spectra. Part LXXXVI. Infrared and Raman spectra of baryte-type $TlClO_4$, $TlBF_4$, and NH_4BF_4 single crystals and of ^{11}B-enriched NH_4BF_4 1
Band structure
band structure and chemical bonding of the hydride phase of the Ti_3P–H system 22
Barium
a barium germanium nitride, $Ba_3Ge_2N_2$, containing $^1_\infty|Ge^{2-}$ and GeN_2^{4-} anions 69
Bi:2223 superconductors
effect of Fe substitution on the magnetic and electrical properties of the $(Bi_{1.6}Pb_{0.4})(Sr_{1.8}Ba_{0.2})Ca_2(Cu_{1-x}Fe_x)_3O_y$ superconductor 116
Bi–Pb–Sr–Ca–Cu–O system
factors influencing the apparent activation energy for the formation of the $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+\delta}$ compound 127
Bonded permanent magnets
torque transfer through plastic bonded $Nd_2Fe_{14}B$ magnetic gear system 175

Calorimetry
interaction mechanism of hydrogen with the $CaCu_5$-type crystal structure intermetallic compounds 112
new results about the osmium–zirconium system 199
Cerium nickel silicides
crystal structure and magnetic properties of $CeNi_{11-x}Si_x$ compounds 124
Ce valence
crystal structure and magnetic properties of $CeNi_{11-x}Si_x$ compounds 124
Chalcogenides
synthesis and properties of $BaCu_xNi_{1-x}S_{2-\delta}$ ($0.0 < x < 0.4$; $0.0 < \delta < 0.09$) 89
Chemical bonding
band structure and chemical bonding of the hydride phase of the Ti_3P–H system 22
Cluster
the crystal structure of some rhenium and technetium dichalcogenides 34
Cr-alloyed uranium
the hydriding kinetics of β-quenched uranium–0.1 wt.% chromium 224
Crystal field
luminescence of Eu^{2+} in silicate host lattices with alkaline earth ions in a row 75
Crystallography
the influence of cobalt on the electrochemical cycling stability of $LaNi_5$-based hydride forming alloys 160
Crystal structure
the actinoid nickel phosphides $Th_{11}Ni_{25}P_{20}$ and $U_{11}Ni_{25}P_{20}$ 44
a barium germanium nitride, $Ba_3Ge_2N_2$, containing $^1_\infty|Ge^{2-}$ and GeN_2^{4-} anions 69
crystal structure and magnetic properties of $CeNi_{11-x}Si_x$ compounds 124
$CsSm_{(1-x)}Yb_xI_3$
phase diagram and structure of $CsSm_{(1-x)}Yb_xI_3$ systems 40
Cu-substitution
interaction mechanism of hydrogen with the $CaCu_5$-type crystal structure intermetallic compounds 112
Cycle life
the influence of cobalt on the electrochemical cycling stability of $LaNi_5$-based hydride forming alloys 160

2D magnetism
structure–property relationships in a series of mixed layer pnictide oxide compounds: $A_2Mn_3Pn_2O_2$ (A = Sr, Ba; Pn = P, As, Sb) 82
Divalent europium
luminescence of Eu^{2+} in silicate host lattices with alkaline earth ions in a row 75
DTA
on the fusion and vaporisation behaviour of UCl_3 95

Electrical conductance
thermal, electrical and structural properties of Li_2WO_4 148
Electrical resistivity
effect of Fe substitution on the magnetic and electrical properties of the $(Bi_{1.6}Pb_{0.4})(Sr_{1.8}Ba_{0.2})Ca_2(Cu_{1-x}Fe_x)_3O_y$ superconductor 116
Electronic structure
electronic structure, superconductivity, and substitution patterns in Tl_5Te_3 51

Elsevier Science S.A.

Energy migration processes
energy migration in $EuTa_7O_{19}$, $TbTa_7O_{19}$ and $La_{0.86}Tm_{0.14}Ta_7O_{19}$ 16
Europium
energy migration in $EuTa_7O_{19}$, $TbTa_7O_{19}$ and $La_{0.86}Tm_{0.14}Ta_7O_{19}$ 16

Fe substitution
effect of Fe substitution on the magnetic and electrical properties of the $(Bi_{1.6}Pb_{0.4})(Sr_{1.8}Ba_{0.2})Ca_2(Cu_{1-x}Fe_x)_3O_y$ superconductor 116
Fusion enthalpy
on the fusion and vaporisation behaviour of UCl_3 95

Germanium
a barium germanium nitride, $Ba_3Ge_2N_2$, containing $^1_\infty|Ge^{2-}$ and GeN_2^{4-} anions 69
Group V elements
new Group V κ-phases 98
Group VII 4d and 5d transition metal dichalcogenides
the crystal structure of some rhenium and technetium dichalcogenides 34

Heavy fermion antiferromagnets
specific heat and magnetic susceptibility of CeAuSn and CeAgSn 121
Heterovalent replacement
synthesis and properties of $NbM_2RCu_2O_8$ and $TaM_2RCu_2O_8$ phases (M = Ba, Sr; R = Pr, Nd, Sm, Eu and Gd) 63
High-pressure phases
Rietveld structure refinement of two high-pressure spinels: $ZnIn_2S_4$–II and $MnIn_2Se_4$–II 29
Ho–Fe–Nd system
phase equilibria in the ternary Ho–Fe–Nd system at 500 °C 196
Hydride
band structure and chemical bonding of the hydride phase of the Ti_3P–H system 22
Hydriding kinetics
the hydriding kinetics of β-quenched uranium–0.1 wt.% chromium 224
Hydriding mechanism
interaction mechanism of hydrogen with the $CaCu_5$-type crystal structure intermetallic compounds 112
Hydrogen in metals
the influence of cobalt on the electrochemical cycling stability of $LaNi_5$-based hydride forming alloys 160
hydrogenation behaviour of the new composite storage materials Mg–x wt.% $CFMmNi_5$ 167
the hydriding kinetics of β-quenched uranium–0.1 wt.% chromium 224
Hydrogen storage alloy
hydrogenation behaviour of the new composite storage materials Mg–x wt.% $CFMmNi_5$ 167

Infrared spectroscopy
on the fusion and vaporisation behaviour of UCl_3 95
Intermetallic compounds
interaction mechanism of hydrogen with the $CaCu_5$-type crystal structure intermetallic compounds 112
phase relations in the Nd–Co–Si system at 800 °C 191
Intermetallics
electronic structure, superconductivity, and substitution patterns in Tl_5Te_3 51
new results about the osmium–zirconium system 199
Isothermal section
phase equilibria in the ternary Ho–Fe–Nd system at 500 °C 196

Lanthanum nickel alloys
the influence of cobalt on the electrochemical cycling stability of $LaNi_5$-based hydride forming alloys 160
Layered compounds
structure–property relationships in a series of mixed layer pnictide oxide compounds: $A_2Mn_3Pn_2O_2$ (A = Sr, Ba; Pn = P, As, Sb) 82
Layer structure
the crystal structure of some rhenium and technetium dichalcogenides 34
Lithium tungstate
thermal, electrical and structural properties of Li_2WO_4 148
Low-energy ball milling
solid state reaction between powders and foils by low-energy ball milling 153
Low temperature physics
specific heat and magnetic susceptibility of CeAuSn and CeAgSn 121
Luminescence
luminescence of Eu^{2+} in silicate host lattices with alkaline earth ions in a row 75

Magnesium rare earth nickel composite
hydrogenation behaviour of the new composite storage materials Mg–x wt.% $CFMmNi_5$ 167
Magnetic measurements
the x–T magnetic phase diagram of the $La_{1-x}Y_xMn_2Ge_2$ system by neutron diffraction study 135
Magnetic multipole gear coupling
torque transfer through plastic bonded $Nd_2Fe_{14}B$ magnetic gear system 175
Magnetic phase diagram
the x–T magnetic phase diagram of the $La_{1-x}Y_xMn_2Ge_2$ system by neutron diffraction study 135
Magnetic properties
magnetic transition in $TbMn_2Si_2$ L1
crystal structure and magnetic properties of $CeNi_{11-x}Si_x$ compounds 124
Magnetic structure
magnetic transition in $TbMn_2Si_2$ L1
Magnetic structures
the x–T magnetic phase diagram of the $La_{1-x}Y_xMn_2Ge_2$ system by neutron diffraction study 135
Mechanical alloying
solid state reaction between powders and foils by low-energy ball milling 153
Metallic phosphides
the actinoid nickel phosphides $Th_{11}Ni_{25}P_{20}$ and $U_{11}Ni_{25}P_{20}$ 44
Metal–metal bond
the crystal structure of some rhenium and technetium dichalcogenides 34
Metal–metal bonding
the actinoid nickel phosphides $Th_{11}Ni_{25}P_{20}$ and $U_{11}Ni_{25}P_{20}$ 44

Molybdenum diboride
the diboride compounds of molybdenum: MoB_{2-x} and Mo_2B_{5-y} 180

Nd–Co–Si system
phase relations in the Nd–Co–Si system at 800 °C 191
Neutron diffraction
magnetic transition in $TbMn_2Si_2$ L1
new Group V κ-phases 98
crystal structure and magnetic properties of $CeNi_{11-x}Si_x$ compounds 124
the x–T magnetic phase diagram of the $La_{1-x}Y_xMn_2Ge_2$ system by neutron diffraction study 135
the diboride compounds of molybdenum: MoB_{2-x} and Mo_2B_{5-y} 180
Niobium
synthesis and properties of $NbM_2RCu_2O_8$ and $TaM_2RCu_2O_8$ phases (M = Ba, Sr; R = Pr, Nd, Sm, Eu and Gd) 63

Perchlorates
lattice vibration spectra. Part LXXXVI. Infrared and Raman spectra of baryte-type $TlClO_4$, $TlBF_4$, and NH_4BF_4 single crystals and of ^{11}B-enriched NH_4BF_4 1
Permanent magnet materials
the ternary system Sm–Co–Zr isoplethic section at Co = 89 at.% 210
Phase diagram
phase equilibria in the ternary Ho–Fe–Nd system at 500 °C 196
binary system Sm–Co: revision of the phase diagram in the Co rich field 216
Phase diagram calculations
new results about the osmium–zirconium system 199
Phase diagrams
phase diagram and structure of $CsSm_{(1-x)}Yb_xI_3$ systems 40
Phase formation
factors influencing the apparent activation energy for the formation of the $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+\delta}$ compound 127
Phase relations
the diboride compounds of molybdenum: MoB_{2-x} and Mo_2B_{5-y} 180
phase relations in the Nd–Co–Si system at 800 °C 191
κ-phases
new Group V κ-phases 98
1212-phases
synthesis and properties of $NbM_2RCu_2O_8$ and $TaM_2RCu_2O_8$ phases (M = Ba, Sr; R = Pr, Nd, Sm, Eu and Gd) 63
Phosphors
energy migration in $EuTa_7O_{19}$, $TbTa_7O_{19}$ and $La_{0.86}Tm_{0.14}Ta_7O_{19}$ 16
Pnictide oxide compounds
structure–property relationships in a series of mixed layer pnictide oxide compounds: $A_2Mn_3Pn_2O_2$ (A = Sr, Ba; Pn = P, As, Sb) 82

Quaternary RE compounds
phase diagram and structure of $CsSm_{(1-x)}Yb_xI_3$ systems 40

Rare earth compounds
phase relations in the Nd–Co–Si system at 800 °C 191
Rare earth iron alloys
torque transfer through plastic bonded $Nd_2Fe_{14}B$ magnetic gear system 175
Rietveld structure refinement
Rietveld structure refinement of two high-pressure spinels: $ZnIn_2S_4$–II and $MnIn_2Se_4$–II 29

Samarium cobalt compounds
binary system Sm–Co: revision of the phase diagram in the Co rich field 216
Samarium–cobalt–zirconium compounds
the ternary system Sm–Co–Zr isoplethic section at Co = 89 at.% 210
Semiconductivity
structure–property relationships in a series of mixed layer pnictide oxide compounds: $A_2Mn_3Pn_2O_2$ (A = Sr, Ba; Pn = P, As, Sb) 82
Single crystal
crystal chemical properties and preparation of single crystals of $AgGaSe_2$–$GeSe_2$ γ-solid solutions 187
Sintering
thermal, electrical and structural properties of Li_2WO_4 148
Solid solubility
the ternary system Sm–Co–Zr isoplethic section at Co = 89 at.% 210
binary system Sm–Co: revision of the phase diagram in the Co rich field 216
Solid solution
crystal chemical properties and preparation of single crystals of $AgGaSe_2$–$GeSe_2$ γ-solid solutions 187
Spinel-type structure
Rietveld structure refinement of two high-pressure spinels: $ZnIn_2S_4$–II and $MnIn_2Se_4$–II 29
Storage capacity
hydrogenation behaviour of the new composite storage materials Mg–x wt.% CFMmNi$_5$ 167
Structural properties
structural properties of the system m-ZrO_2–α-Fe_2O_3 10
Structure
phase diagram and structure of $CsSm_{(1-x)}Yb_xI_3$ systems 40
thermal, electrical and structural properties of Li_2WO_4 148
the diboride compounds of molybdenum: MoB_{2-x} and Mo_2B_{5-y} 180
Substitution
synthesis and properties of $BaCu_xNi_{1-x}S_{2-\delta}$ ($0.0 < x < 0.4$; $0.0 < \delta < 0.09$) 89
Superconductivity
electronic structure, superconductivity, and substitution patterns in Tl_5Te_3 51
new Group V κ-phases 98

Tantalum
synthesis and properties of $NbM_2RCu_2O_8$ and $TaM_2RCu_2O_8$ phases (M = Ba, Sr; R = Pr, Nd, Sm, Eu and Gd) 63
$TaSr_2EuCu_2O_8$ crystal structure
synthesis and properties of $NbM_2RCu_2O_8$ and $TaM_2RCu_2O_8$ phases (M = Ba, Sr; R = Pr, Nd, Sm, Eu and Gd) 63
Tellurides
electronic structure, superconductivity, and substitution patterns in Tl_5Te_3 51

Terbium La–Ta compounds
energy migration in $EuTa_7O_{19}$, $TbTa_7O_{19}$ and $La_{0.86}Tm_{0.14}Ta_7O_{19}$ 16
Terbium manganese silicide
magnetic transition in $TbMn_2Si_2$ L1
Ternary nitride
a barium germanium nitride, $Ba_3Ge_2N_2$, containing $^1_\infty|Ge^{2-}$ and GeN_2^{4-} anions 69
Ternary phase diagram
the ternary system Sm–Co–Zr isoplethic section at Co = 89 at.% 210
Ternary rare earth manganese compounds
the x–T magnetic phase diagram of the $La_{1-x}Y_xMn_2Ge_2$ system by neutron diffraction study 135
Ternary section
phase relations in the Nd–Co–Si system at 800 °C 191
Ternary sulfides
synthesis and properties of $BaCu_xNi_{1-x}S_{2-\delta}$ ($0.0 < x < 0.4$; $0.0 < \delta < 0.09$) 89
Tetrafluoroborates
lattice vibration spectra. Part LXXXVI. Infrared and Raman spectra of baryte-type $TlClO_4$, $TlBF_4$, and NH_4BF_4 single crystals and of ^{11}B-enriched NH_4BF_4 1
Thallium
lattice vibration spectra. Part LXXXVI. Infrared and Raman spectra of baryte-type $TlClO_4$, $TlBF_4$, and NH_4BF_4 single crystals and of ^{11}B-enriched NH_4BF_4 1
Thermodynamics
new results about the osmium–zirconium system 199
Ti foil
solid state reaction between powders and foils by low-energy ball milling 153
Ti_3P–H
band structure and chemical bonding of the hydride phase of the Ti_3P–H system 22
Transition metal alloys
new results about the osmium–zirconium system 199
Transport properties
synthesis and properties of $BaCu_xNi_{1-x}S_{2-\delta}$ ($0.0 < x < 0.4$; $0.0 < \delta < 0.09$) 89

Uranium trichloride
on the fusion and vaporisation behaviour of UCl_3 95

Vibration spectroscopy
lattice vibration spectra. Part LXXXVI. Infrared and Raman spectra of baryte-type $TlClO_4$, $TlBF_4$, and NH_4BF_4 single crystals and of ^{11}B-enriched NH_4BF_4 1
Vickers hardness
the influence of cobalt on the electrochemical cycling stability of $LaNi_5$-based hydride forming alloys 160

XPS
the influence of cobalt on the electrochemical cycling stability of $LaNi_5$-based hydride forming alloys 160
X-ray crystal structure
new Group V κ-phases 98

Zintl anions
a barium germanium nitride, $Ba_3Ge_2N_2$, containing $^1_\infty|Ge^{2-}$ and GeN_2^{4-} anions 69
Zirconia
structural properties of the system m-ZrO_2–α-Fe_2O_3 10

m-ZrO_2–α-Fe_2O_3 system
structural properties of the system m-ZrO_2–α-Fe_2O_3 10